The Exterior 400 Image Projector is a powerful tool for integrating textures, patterns and graphics in outdoor lighting designs. At over 7000 lumens, the fixture can be used for bright and dynamic logo projection, as well as precision framing.

Using advanced LED technology, the Exterior 400 Image Projector stands apart for its energy efficiency, compact size and incredible design flexibility.

- Bright and energy efficient LED projection (+7000 lumens)
- Up to six customizable gobos (two included with fixture)
- Up to eight customizable colors (blue and orange included with fixture)
- Rugged IP65 housing
- Narrow, medium and wide beam angle options
- Pre-programmable effects, such as: continuous image rotation, color scrolling, focus, dimming

Physical

Medium- and wide-angle models
Length: 365 mm (14.4 in.) including cable gland
Width: 307 mm (12.1 in.) including mounting yoke
Height: 421 mm (16.6 in.) including mounting yoke
Weight: 14 kg (30.9 lbs.)

Narrow-angle models
Length: 425 mm (16.7 in.) including cable gland
Width: 307 mm (12.1 in.) including mounting yoke
421 mm (16.6 in.) including mounting yoke
Weight: 15 kg (33.1 lbs.)

Dynamic Effects

Color wheel: 8 interchangeable dichroic filters + open, full and split colors, continuous rotation, random color
Rotating gobo wheel: 6 interchangeable gobos + open, indexing, continuous gobo rotation & scrolling, shake
Motorized iris: 0 - 100%, pulse effects
Motorized focus: Approx. 2 m (6.6 ft.) to infinity
Electronic dimming: 0 - 100% continuous dimming
Electronic 'shutter' effect: Strobe, pulse and sinewave intensity modulation effects
Pre-programmed effects: Varied macro effects available in stand-alone mode
*See **Included Items** for details of gobos and color filters supplied as standard*

Control and Programming

Control options: DMX, stand-alone, synchronized (master/slave)
RDM (Remote Device Management): Implemented
DMX channels: 9
DMX address setting: PC with Martin MUM TM software and DABS1 TM Interface Box, RDM
Stand-alone trigger options: Internal timer, including 24-hour clock
Stand-alone (single fixture and/or synchronized) programming: PC with Martin MUM TM software and DABS1 TM hardware interface
Stand-alone program capacity: Up to 100 scenes
DMX compliance: USITT DMX512-A
RDM compliance: ANSI/ESTA E1.20
Receiver: RS-485
Firmware update: Serial upload via DMX link

Optics
Light source: 7 x Luminus CBT-90 (50 W) LEDs
White LED: 6500 K
Minimum LED lifetime: 60 000 hours (to >70% luminous output)*
**Figure obtained under manufacturer´s test conditions*

Construction
Color: Clear anodized, white, custom colors to special order
Housing: Anodized aluminum
Mounting bracket: 8 mm (0.3 in.) anodized aluminum
Front glass: 6 mm (0.2 in.) anti-reflection coated
Protection rating: IP65

Gobos
Outside diameter: 27.9 mm (1.1 in.) +0/- 0.3 mm (0.01 in.)
Maximum image diameter: 23 mm (0.9 in.)
Maximum thickness: 1.8 mm (0.1 in.)
Recommended glass: High-temperature Borofloat or better with dichroic or enhanced aluminum coating
Recommended metal: Aluminum (steel for temporary use only)

Installation
Orientation: Any
Mounting: Flat surface at any angle, pedestal or other suitable support
Vertical aiming: 330°
Minimum distance to illuminated surfaces: 0.5 m (1.6 ft.)

Connections
Power connection: 1.8 m (5.9 ft.) cable tail
Power cable entry: IP68 cable gland
Data connection: 1.8 m (5.9 ft.) combined input + output cable tail
Data cable entry: IP68 cable gland

Electrical
AC power: 100-240 V nominal, 50/60 Hz
Typical power consumption, all effects static, zero light output: 13 W
Power supply unit: Integrated, auto-sensing multi-voltage

Typical Power and Current
100 V, 50 Hz: 422 W, 4.2 A, PF 0.995
100 V, 60 Hz: 418 W, 4.2 A, PF 0.995
110 V, 60 Hz: 417 W, 3.8 A, PF 0.994
120 V, 60 Hz: 415 W, 3.5 A, PF 0.992
208 V, 60 Hz: 409 W, 2.1 A, PF 0.957
230 V, 50 Hz: 409 W, 1.9 A, PF 0.960
240 V, 50 Hz: 408 W, 1.8 A, PF 0.954
Measurements made at nominal voltage with all LEDs at full intensity. Allow for a deviation of +/- 10%.

Thermal
Cooling: Convection
Maximum ambient temperature (Ta max.): 45° C (113° F)
Minimum ambient temperature (Ta min.): -30° C (-22° F)*
Maximum surface temperature, steady state, Ta=40° C (104° F): 75° C (167° F)
Total heat dissipation (calculated, +/- 10%): 1440 BTU/hr.
**AC mains power must remain applied if the ambient temperature falls below 0° C (32° F)*

Approvals
EU safety: EN 60598-2-17
EU EMC: EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61547
US safety (US model): UL 1573, UL 1598
US EMC (US model): FCC Part 15 Class A
Canadian safety (US model): CSA C22.2 No. 166, CSA C22.2 No. 250.0

Included Items
Adjustable mounting yoke
Washers for use with mounting fasteners
Hard-wired 1.8 m (5.9 ft.) power and data in/out cable tails without connectors
Color filter, Blue B04-6: P/N 62327198
Color filter, Orange B09-6: P/N 62327201
6 x goboholders
Gobo, Tight Stripple, glass: P/N 43072011
Gobo, Dot Breakup Small, glass: P/N 43072009
User manual

Optical components are supplied installed

Accessories

Safety eyebolt: P/N 91611239
Safety cable, safe working load 50 kg (110.2 lbs.): P/N 91604003
3-pin male XLR connector, cable-type, IP65: P/N 91611306
3-pin female XLR connector, cable-type, IP65: P/N 91611307
Extended mounting bracket: P/N 91611570
A wide range of filters and gobos for this product is available from Martin TM

Related Items

Martin DABS1 TM USB interface box incl. cables: P/N 90758090
Martin RDM 5.5 Splitter TM : P/N 90758150
Martin M-PC V3 TM Pro (up to 64 DMX universes) incl. Martin USB Duo TM : P/N 90732070
Martin M-PC V3 TM Basic (up to 8 DMX universes) incl. Martin USB Duo TM : P/N 90732010
Martin USB Duo TM USB/DMX Interface Box: P/N 90703010

Ordering Information

Exterior 400 IP TM Narrow, EU: P/N 90356500
Exterior 400 IP TM Narrow, US: P/N 90356510
Exterior 400 IP TM Medium, EU: P/N 90507050
Exterior 400 IP TM Medium, US: P/N 90507060
Exterior 400 IP TM Wide, EU: P/N 90356540
Exterior 400 IP TM Wide, US: P/N 90356550
Custom colors available by special order - please contact your Martin distributor for details

Photometric Data

Standard (Narrow lens)

Efficacy: 15.9 lumens per watt
Cut-off angle: 16°
Total output: 7000 lm

Standard (Medium lens)

Efficiency: 392%
Efficacy: 16 lumens per watt
Cut-off angle: 25°
Total output: 7100 lm

Standard (Wide lens)

Efficiency: 419%
Efficacy: 17.1 lumens per watt
Cut-off angle: 42°
Total output: 7500 lm

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